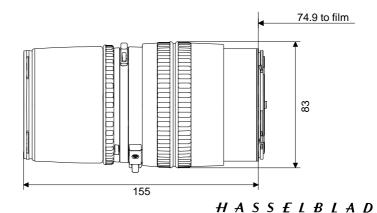
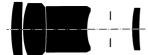
Sonnar[®] T* 5,6/250 CFi





This lens is frequently used for distortion-free close-up portraits, particularly in fashion and in advertising photography involving kids that need to be photographed from a distance to appear natural. The optical performance, although optimized for infinity, has been kept very high, even close-up, to enable professional results in studio portrait and product photography. The shallow depth of field makes the Sonnar® T* 5,6/250 CFi lens ideal for blurring out unwanted backgrounds, making the subject stand out impressively.

The optical system is designed for high performance and corner-to-corner uniformity at wide open aperture. The optical materials chosen make this lens very unsusceptible to thermal fluctuations, so it can be safely used in radiant heat from direct summer sunshine, heavy industry furnaces, jet propulsion test beds, rocket launch sites and the like.

Preferred use: portraits, fashion, industrial, advertising, landscapes

Cat. No. of lens	10 11 37
Number of elements	4
Number of groups	3
Max. aperture	f/5.6
Focal length	243.4 mm
Negative size	55 x 55 mm
Angular field	width 13°, height 13°,

diagonal 18° 45

Min. aperture CFi Camera mount

Shutter Prontor CFi 1s-1/500s, b, f bayonett series 60 Filter connection

Focusing range infinity to 2.5 m Working distance (between mechanical front end of

lens and subject) 2.2 m Close limit field size 427 mm x 427 mm

Max. scale 1:7.8

Entrance pupil

Position 125.5 mm behind the first lens vertex

Diameter 43.8 mm

Exit pupil

Position 21.3 mm in front of the last lens vertex

Diameter 25.0 mm

Position of principal planes

62.8 mm in front of the first lens vertex 128.5 mm in front of the last lens vertex 120.0 mm

Back focal distance

Distance between first

and last lens vertex 105.5 mm Weight 1000 g



Performance data:

Sonnar[®] T* 5,6/250 CFi

Cat. No. 10 11 37

1. MTF Diagrams

The image height u - calculated from the image center - is entered in mm on the horizontal axis of the graph. The modulation transfer T (MTF = M odulation Transfer Factor) is entered on the vertical axis. Parameters of the graph are the spatial frequencies R in cycles (line pairs) per mm given at the top of this page.

The lowest spatial frequency corresponds to the upper pair of curves, the highest spatial frequency to the lower pair. Above each graph, the f-number k is given for which the measurement was made. "White" light means that the measurement was made with a subject illumination having the approximate spectral distribution of daylight. Unless otherwise indicated, the performance data refer to large object distances, for which normal photographic lenses are primarily used.

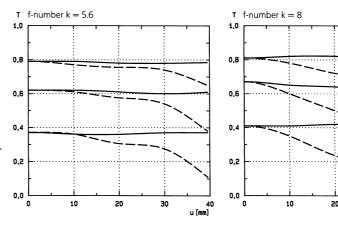
2. Relative illuminance

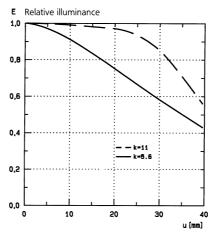
In this diagram the horizontal axis gives the image height u in mm and the vertical axis the relative illuminance E, both for full aperture and a moderately stopped-down lens. The values for E are determined taking into account vignetting and natural light decrease.

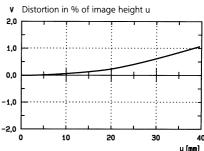
3. Distortion

Here again the image height u is entered on the horizontal axis in mm. The vertical axis gives the distortion V in % of the relevant image height. A positive value for V means that the actual image point is further from the image center than with perfectly distortion-free imaging (pincushion distortion); a negative V indicates barrel distortion.

Modulation transfer T as a function of image height u. Slit orientation: tangential — — — sagittal White light. Spatial frequencies R = 10, 20 and 40 cycles/mm







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Subject to change. Printed in Germany 13.07.2000



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